Practit	ioner's Docket No. NORTH- 391A /A-2244 PATENT
	COMBINED DECLARATION AND POWER OF ATTORNEY
(ORI	GINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)
As a l	pelow named inventor, I hereby declare that:
	TYPE OF DECLARATION
This dec	claration is of the following type:
	(check one applicable item below)
ι <u>X</u> □ ΝΟΤΕ:	design.
NOTE:	If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P. See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer of
NOTE:	continuation.

INVENTORSHIP IDENTIFICATION

— nonprovisional application).
 □ continuation-in-part (C-I-P).

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

SHOCK-RESISTANT BACKPLANE UTILIZING INFRARED COMMUNICATION SCHEME WITH ELECTRICAL INTERFACE FOR EMBEDDED SYSTEMS





the specification of which:

(complete (a), (b), or (c))

(a) ()	XI i	is atta	ached hereto					
NOTE:	filin with	ig date	with a specificat one of the items	ion are a	acceptable a	s minimums .	for identifying a spec	n filed on the application dification and compliance dification requirement of
		"(1 the o	l) name of inven ath or declaration	tor(s), a	nd reference time of exec	e to an attac	hed specification w bmitted with the oat	hich is both attached to h or declaration on filing;
		"(2 or	2) name of inven	tor(s), a	nd attorney	docket num	ber which was on t	he specification as filed;
		"(3	3) name of inven	tor(s), a	nd title whic	h was on th	ne specification as f	iled."
		No	otice of July 13,	1995 (1	177 O.G. 6	0).		
(b) [was f or \square					as 🗌 Serial No.	0 /
							íf applicable).	
NOTE:	not are am	accord those endme	ded a filing date i filed with the a	by being pplication	referred to on papers o	in the declara r, in the cas	ation. Accordingly, to se of a supplementa	contain new matter are the amendments involved al declaration, are those invention or claims. See
NOTE:	are	accep	itable as minimu	ms for i	dentifying a	specification		filed after the filing date ith any one of the items 7 CFR 1.63:
		"(A	A) application nu	mber (co	onsisting of	the series co	ode and the serial nu	ımber, e.g., 08/123,456);
		"(E	3) serial number	and filir	ng date;			
		"(C	C) attorney dock	et numb	er which w	as on the sp	ecification as filed;	
		is bo						ched specification which submitted with the oath
		identi of the any s	ifying the applicate series code and statement(s) to the	ation for I the ser he conti	which it wa ial number, rary, it will t	as intended i e.g., 08/123, pe presumed	by either the application 456), or serial number	a cover letter accurately ation number (consisting er and filing date. Absent n filed in the PTO is the ation."
		М.	P.E.P. § 601.01	(a), 7th	Ed.			
(c) [י כ	was	described					Application No.
		amen	ded under P					
		amen	ded under P					

(Declaration and Power of Attorney [1-1]-page 2 of 7)

SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))
(complete the following where a supplemental declaration is being submitted)
☐ I hereby declare that the subject matter of the
☐ attached amendment
amendment filed on
was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.
ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,
(also check the following items, if desired)
and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.
PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).
I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than
the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.
before that of the application(s) of which priority is claimed.
before that of the application(s) of which priority is claimed. (complete (d) or (e))

priority check item (e), enter the details below and make the priority claim.

Dagatsan narton

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)–(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY UNDER 37	CLAIMED USC 119
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
CLAIM FOR	R BENEFIT OF PRIOR U. (34 U.S.C.		APPLICA'	TION(S)
	the benefit under Title 35, al application(s) listed below		§ 119(e) o	f any United
States provisiona			§ 119(e) o	
States provisiona PROVISIONAL A	al application(s) listed below			

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. § 120

☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]-page 4 of 7)

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T,	-

the basis for this application entering the divisional, or continuation-in-part, then all	hs from the filing date of this application is a PCT filing form the United States as (1) the national stage, or (2) a continual tion complete ADDED PAGES TO COMBINED DECLARATE
of the prior U.S. or PCT application(s) u	SIONAL, CONTINUATION OR C-I-P APPLICATION for be inder 35 U.S.C. § 120. OF ATTORNEY
	oner(s) to prosecute this application and trans
/ J. Anderson, Esq., Reg. No. 24,27 M. Stetina, Reg. No. 29,445; Bruce B. Garred, Reg. No. 34,823; Willia New A. Newboles, Reg. No. 36,224; T L. Tanezaki, Reg. No. 40,196;	am J. Brucker, Reg. No. 35,462;
	ner(s) associated with the Customer Number sapplication and to transact all business in connected therewith.
· · · · · · · · · · · · · · · · · · ·	aration and power of attomey, is the authorization and power of attomey, is the authorization from articles are also accept and follow instructions from
SEND CORRESPONDENCE TO	DIRECT TELEPHONE CALLS T (Name and telephone number)
☼ Address	
/ J. Anderson, Esq. HROP GRUMMAN CORPORATION Century Park East	Terry J. Anderson, Esq. (310) 332-5666
Angeles, CA 90067-2199	

DECLARATION

I hereby declare that an statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the

executing inventor. 62	? Fed. Reg. 53,131, 53,142, October 10, 19.	97,
Full name of sole or firs	t inventor	
Shannon	M.	Nelson
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature Date March 20, 2	Mouno III Inclise Country of Citizenship	U.S.A.
Residence 5122 Nort	h Natoma Avenue, Chicago,	
	122 North Natoma Avenue, Cl	
Full name of second join	•	0.11
Stuart	J.	Collar
(GIVEN NAME) Inventor's signature	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
-	Country of Citizenship _	U.S.A.
	sta Drive, Algonquin, IL (
	00 W. Vista Drive, Algonqu	
Full name of third joint i	<u> </u>	
Mark	D.	Hischke
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature		
Date	Country of Citizenship _	U.S.A.
Residence 4 Walnut	Lane, Algonquin, IL 60102	

4 Walnut Lane, Algonquin, IL

FORM 1-1

Post Office Address

60102

(Declaration and Power of Attorney [1-1]—page 6 of 7)

check	proper	box(es)	for an	y o	f the	following	added	page(s)
	t/	hat form	a par	t of	this	declaratio	n)	

Signature for fourth and subsequent joint inventors. Number of pages added
Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
• • •
Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added
• • •
Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
• • •
Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application. □ Number of pages added
□ Number of pages added
• • •
Authorization of practitioner(s) to accept and follow instructions from representative.
• • • • ·
(if no further pages form a part of this Declaration,

(if no further pages form a part of this Declaration, then end this Declaration with this page and check the following item)

Practitioner's Docket No. NORTH- 391A /A-2244 PATENT
COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)
As a below named inventor, I hereby declare that:
TYPE OF DECLARATION
This declaration is of the following type:
(check one applicable item below)
Ø original.☐ design.☐ supplemental.
NOTE: If the declaration is for an International Application being filed as a divisional, continuation of continuation-in-part application, do not check next item; check appropriate one of last three items. Inational stage of PCT.
NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL CONTINUATION OR C-I-P.
NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer the inventors named in the prior application.
☐ divisional.
☐ continuation.
NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or continuation or divisional application names an inventor not named in the prior application, continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirement)

INVENTORSHIP IDENTIFICATION

nonprovisional application).
 continuation-in-part (C-I-P).

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

SHOCK-RESISTANT BACKPLANE UTILIZING INFRARED COMMUNICATION SCHEME WITH ELECTRICAL INTERFACE FOR EMBEDDED SYSTEMS



the specification of which:

(complete (a), (b), or (c))

(a) []	is attached hereto.
NOTE:	"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;
	"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or
	"(3) name of inventor(s), and title which was on the specification as filed."
	Notice of July 13, 1995 (1177 O.G. 60).
(b) [was filed on, as
	and was amended on (if applicable).
NOTE:	Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.
NOTE:	"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456);
	"(B) serial number and filing date;
	"(C) attorney docket number which was on the specification as filed;
	"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
	"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
	M.P.E.P. § 601.01(a), 7th Ed.
(c) [was described and claimed in PCT International Application No.
	amended under PCT Article 19 on (if any).
	, (Declaration and Rower of Attempt 11.11, page 2 of 7)

(Declaration and Power of Attorney [1-1]—page 2 of 7)

FORM 1-1

SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))
(complete the following where a supplemental declaration is being submitted)
☐ I hereby declare that the subject matter of the
☐ attached amendment
amendment filed on
was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.
ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,
(also check the following items, if desired)
and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.
PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the cath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R.
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a). I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)—(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a). I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a). I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed. (complete (d) or (e))

priority check item (e), enter the details below and make the priority claim.

DOMENT CHECO

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)		CLAIMED 7 USC 119
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
	the benefit under Title 35, al application(s) listed below		§ 119(e) c	of any United
PROVISIONAL A	APPLICATION NUMBER		FILING I	DATE
			 	
/				
CLAIM	FOR BENEFIT OF EAR	LIER US/PCT APPI U.S.C. § 120	LICATION	1(S)

The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN

PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]-page 4 of 7)

1	_	•
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NOTE:	the basis for this application ente divisional, or continuation-in-part	12 months from the filing date of this agening the United States as (1) the nation, then also complete ADDED PAGES OR DIVISIONAL, CONTINUATION OR stion(s) under 35 U.S.C. § 120.	nal stage, or (2) a continuation TO COMBINED DECLARATIO
	PO	WER OF ATTORNEY	•
		ractitioner(s) to prosecute this demark Office connected there	
z M. Stetir rk B. Garre thew A. Ne ic L. Tanez	erson, Esq., Reg. No. ia, Reg. No. 29,445; B ed, Reg. No. 34,823; W ewboles, Reg. No. 36,2 aki, Reg. No. 40,196; (check the	e following item, if applicable)	. 28,497; No. 35,462; g. No. 26,777;
1	vided below to prosecu	actitioner(s) associated with the ute this application and to tra Office connected therewith.	
	☐ Attached as part of this	s declaration and power of atto	omey, is the authorization
l		actitioner(s) to accept and fol	
SEND (of the above-named pr	DIRECT	
	of the above-named pr representative(s).	DIRECT	low instructions from m
rry J. Ande RTHROP GRUM 10 Century	of the above-named pr representative(s). CORRESPONDENCE TO Address erson, Esq. MAN CORPORATION	DIRECT (Name	TELEPHONE CALLS TO: and telephone number) Anderson, Esq.

(Rel.79-4/99 Pub.605)

DECLARATION



(Declaration and Power of Attorney [1-1]—page 6 of 7)

1-10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided <u>each</u> declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor, 62 Fed. Reg. 53.131, 53.142 October 10, 1997

Shannon M.		Nelson		
(GIVEN NAME) (MIDDLE INITIAL OR NAME)		FAMILY (OR LAST NAME)		
Inventor's signature _				
Date	Country of Citizenship _	U.S.A.		
Residence 5122 No	orth Natoma Avenue, Chicago, I	L 60656		
Post Office Address 5122 North Natoma Avenue, Chicago, IL 60656				
Full name of second	joint inventor, if any			
Stuart	<u> </u>	Collar		
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME,		
Inventor's signature _		II C a		
	Country of Citizenship			
Residence <u>800 W.</u>	Vista Drive, Algonquin, IL 6	0102		
Post Office Address _	800 W. Vista Drive, Algonqui	n, IL 60102		
·				
Eull name of third is:	nt inventor if any			
Full name of third join Mark	D.	Hischke		
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME		
Inventor's signature _				
•	Country of Citizenship _	U.S.A.		
Date	Country of Citizenship _ ut Lane, Algonquin, IL 60102	U.S.A.		

FORM 1-1

(check proper box(es) for any of the	following added page(s)
that form a part of this	declaration)

Signature for fourth and subsequent joint inventors. Number of pages added
• • •
Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
• • •
Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added
• • •
Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
• • •
Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
□ Number of pages added
• • •
Authorization of practitioner(s) to accept and follow instructions from representative.
• • •
(if no further pages form a part of this Declaration

(if no further pages form a part of this Declaration, then end this Declaration with this page and check the following item)

Practitioner's Docket No. NORTH- 391A /A-2244

PATENT

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

🖄 original.	
☐ design.	
supplemental.	
	pplication being filed as a divisional, continuation or k next item; check appropriate one of last three items.
☐ national stage of PCT.	
NOTE: If one of the following 3 items apply, then cor CONTINUATION OR C-I-P.	mplete and also attach ADDED PAGES FOR DIVISIONAL,
* ,	on application) for use of a prior nonprovisional application application being filed on behalf of the same or fewer of
□ divisional.	
continuation.	
continuation or divisional application nam	ubject matter not disclosed in the prior application, or a es an inventor not named in the prior application, a under 37 C.F.R. § 1.53(b) (application filing requirements
Continuation-in-part (C-I-P)	

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

SHOCK-RESISTANT BACKPLANE UTILIZING INFRARED COMMUNICATION SCHEME WITH ELECTRICAL INTERFACE FOR EMBEDDED SYSTEMS



the specification of which:

(complete (a), (b), or (c))

(a) 🗓 is attached hereto.
NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing
"(2) name of inventor(s), and attorney docket number which was on the specification as filed or
"(3) name of inventor(s), and title which was on the specification as filed."
Notice of July 13, 1995 (1177 O.G. 60).
(b) was filed on, as Serial No. 0 /
and was amended on (if applicable).
NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.
NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456)
"(B) serial number and filing date;
"(C) attorney docket number which was on the specification as filed;
"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absen any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
M.P.E.P. § 601.01(a), 7th Ed.
(c) was described and claimed in PCT International Application No
amended under PCT Article 19 on (if any).

(Declaration and Power of Attorney [1-1]—page 2 of 7)

(Rel.79—4/99 Pub.605) FORM 1-1 1-4

SUPPLEMENTAL DECLARATION (ST C.F.N. 9 1.07(D))
(complete the following where a supplemental declaration is being submitted)
 □ I hereby declare that the subject matter of the □ attached amendment □ amendment filed on
was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.
ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,
(also check the following items, if desired)
and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.
PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).
I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.
(complete (d) or (e))
(d) Ö no such applications have been filed.
(e) such applications have been filed as follows. NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed

priority check item (e), enter the details below and make the priority claim.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY UNDER 37	CLAIMED USC 119
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
I hereby claim	(34 U.S.C. the benefit under Title 35, al application(s) listed below:	§ 119(e)) United States Code,		

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. § 120

The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]-page 4 of 7)

1-	

	REIGN APPLICATION(S MONTHS FOR DESIGN		ORE THAN 12 MONTHS J.S. APPLICATION
ti di A	e basis for this application entering ivisional, or continuation-in-part, the	g the United States as (1) the en also complete ADDED PA DIVISIONAL, CONTINUATION	this application is a PCT filing forming national stage, or (2) a continuation, GES TO COMBINED DECLARATION I OR C-I-P APPLICATION for benefit
	POWI	ER OF ATTORNEY	٠
	appoint the following practs in the Patent and Trader		this application and transact therewith.
Rit M. Stetina, Mark B. Garred, Matthew A. Newb	on, Esq., Reg. No. 24 Reg. No. 29,445; Bru Reg. No. 34,823; Wil oles, Reg. No. 36,224 i. Reg. No. 40,196;	ce B. Brunda, Reg liam J. Brucker, I	n, Jr., Reg. No. 34,181; . No. 28,497; Reg. No. 35,462; , Reg. No. 26,777;
		this application and to	th the Customer Number pro- to transact all business in the h.
			f attorney, is the authorization d follow instructions from my
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Ø	Address		
Terry J. Anders NORTHROP GRUMMA 1840 Century Pa Los Angeles, CA	N CORPORATION rk East		y J. Anderson, Esq. 332-5666
3	Customer Number	-	_

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DECLARATION



1-10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the

(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Note Country of Citizenship _U.S.A. Residence 5122 North Natoma Avenue, Chicago, IL 60656 Post Office Address 5122 North Natoma Avenue, Chicago, IL 60656 Full name of second joint inventor, if any Stuart J. Collar	Shannon	first inventor	Nalas:
Country of Citizenship U.S.A. Residence 5122 North Natoma Avenue, Chicago, IL 60656 Post Office Address 5122 North Natoma Avenue, Chicago, IL 60656 Full name of second joint inventor, if any Stuart J. Collar (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)		(MIDDLE INITIAL OR NAME)	Nelson FAMILY (OR LAST NAME
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ate Country of Citizenship U.S.A.	ventor's signature _		
	ate	Country of Citizenship _	U.S.A.
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	ull name of third join		Hischke
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Mark (GIVEN NAME) (MIDDLE INSTITUTION NAME) Ventor's signature (MIDDLE INSTITUTION NAME) FAMILY (OR LAST NAME) VENTOR INSTITUTION NAME)	ventor's signature _	Country of Citizenship _	U.S.A.
Mark D Hischke	ventor's signature _ ate3 /20/2		

(check proper box(es) for any c	of the following added page(s)
that form a part of	f this declaration)

FORM 1-1

Signature for fourth and subsequent joint inventors. Number of pages added
• • •
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